

KUNBUS GmbH

Revolution Pi Summary

Revolution Pi 소개자료

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Revolution Pi – Raspberry Pi 를 산업용으로 활용



25 Million sold units

The idea: Bringing the Raspberry Pi into the industry

- PLC (EN61131-2)와 동급의 산업용 그레이드
- It is **open source** 개방된 오픈 소스
- It is a complete **modular** automation system (**digital and analog IOs, fieldbus and Ethernet, wireless**) 모듈조합형 시스템
- It is a **platform** for **services and applications** 서비스와 응용이 용이한 플랫폼
- **IoT** 와 **Industry 4.0** 을 위한 필수품




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중심기능 및 연결대책

- LINUX, Rasbian with Real Time Patch
- Free programmable (Python, C+, Java)
- 전원 : 10.7 ~ 28.8VDC
- 4, 8, 16 or 32 GByte eMMC flash memory
- Modbus TCP 및 Modbus RTU master / slave 기능
- 작동온도: -40 to +55 °C
- ESD protection: 4 kV / 8 kV
- IP20
- EMI, Surge & burst according to EN61131-2 and IEC 61000-6-2
- 안전을 위한 Crypto-Chip
- Bridge-Connector for connecting expansion modules (IO's and network)
- 2 ~ 50ms 이내부 싸이클 타임
- Compute Modul B+
- 클라우드 연결을 위한 MQTT/ OPC UA

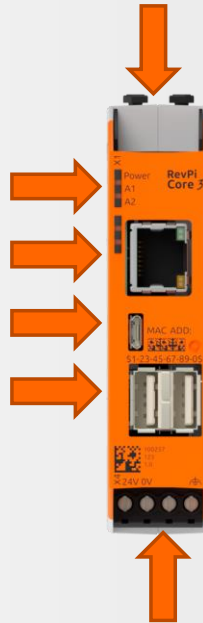


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Revolution Pi 기본모듈 Core 1 and Core 3

1. 2 USB ports, 최대 1 A
2. 상태 표시 LEDs
3. 1 Ethernet port
4. 1 micro HDMI
5. Power supply on X4 connector
6. Micro USB 포트



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Industrial communication

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중심 기능

- Similar to Core

- CAN 버스
- 무선 M-Bus
- 무선 M-Bus long range



모듈 5개 까지

1 CON
modul

PROFIBUS

Modbus

PROFIBUS

EtherCAT

EtherNet/IP

ETHERNET
POWERLINK

sercos
the automation bus

CC-Link

DMX

CANopen
DeviceNet

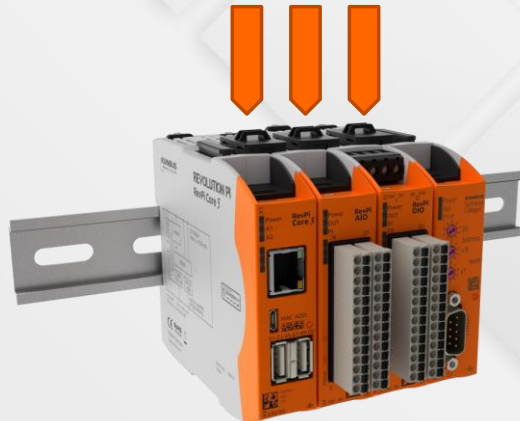
RS-485
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연결 방법



전원

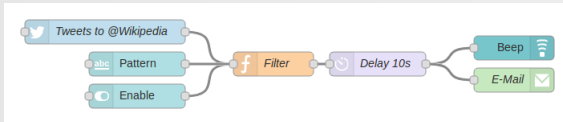


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가능한 연계

- Codesys
- logi.CAD 3
- NodeRed
- PYTHON
- JAVA
- C, C+, C#
- VNC
- Teamviewer
- PROCON-WEB IoT (GTI) HMI/SCADA



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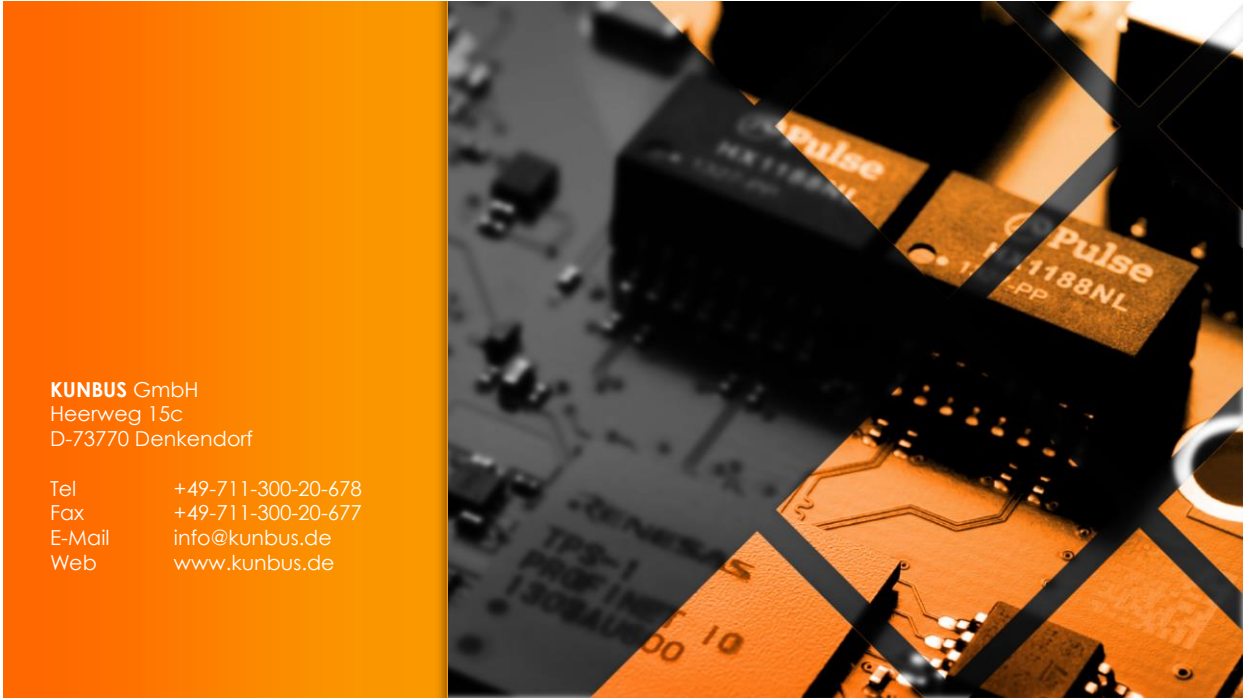
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성공적인 결과로

- 불과 2년 이내에 3000 이상의 고객
- 수상받은 플랫폼
 - Best IPC at IAS Shanghai 2018 (1.st place)
 - Best IPC at IAS Shanghai 2019 (RevPi Connect)
 - TOP100 „Top innovator 2017“
 - Electronic Award 3.nd prize (Product of the year 2017, Category: automation)
 - LB Bank Landespreis „Young Enterprises“ Top 10
 - Innovation award „Landkreis Esslingen“, 2.nd place 2018

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